



Science Toolkit: Grade 7 Objective 3.C.1.e

Student Handout: Science: Grade 7 Objective 3.C.1.e

Standard 3.0 Life Science

Topic C. Genetics

Indicator 1. Explain the ways that genetic information is passed from parent to offspring in different organisms.

Objective e. Identify evidence to support the idea that there is greater variation among offspring of organisms that reproduce sexually than among those that reproduce asexually.

Selected Response (SR) Item

Question

During sexual reproduction, a sperm cell fertilizes an egg cell to form a fertilized egg. The fertilized egg then develops into a new organism.

Which statement describes the primary advantage of sexual reproduction over asexual reproduction?

- A. Sexual reproduction produces identical offspring.
- B. Sexual reproduction results in less adaptable offspring.
- C. Sexual reproduction generates a large number of offspring.
- D. Sexual reproduction results in genetic variation in offspring.

Correct Answer

D. Sexual reproduction results in genetic variation in offspring.

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